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3 **Abstract**

4 Chicken II and salmon GnRH or its analog decapeptides resistant to degradation by peptidase
5 incorporating D-arginine, D-leucine, D-tBu-Serine, D-Trp or other active D amino acids at
6 position 6 and ethylamide, aza-Gly-amide or other Gly amide at position 10. The non-
7 mammalian GnRH or its analogs demonstrate preferential binding to male and female
8 reproductive system GnRH receptors as well as tumor cell GnRH receptors in these systems.
9 Biopotency is greater within the reproductive system and at tumor cells than at the pituitary.
10 These non-mammalian GnRH or its analogs may be used in pharmaceutical preparations, and
11 specifically in various treatment methods as a contraceptive or post-coital contraceptive agent.
12 The non-mammalian GnRH or its analogs are also provided in pharmaceutical preparations that
13 may be used clinically for maintaining pregnancy when used in very low doses and administered
14 in pulsatile fashion, as well as in preparations for the treatment of male and female reproductive
15 system disorders including cancers of these systems or other system with GnRH II receptors.
16 The aza-Gly (10) amide non-mammalian analogs are yet other embodiments of the non-
17 mammalian GnRH analogs provided as a part of the invention.
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